

C.O.C.: ---

REPORT No. B14-22761

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Wayne Solomon

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 03-Sep-14

JOB/PROJECT NO.: Leachate

DATE REPORTED: 16-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B14-22761-1			
			Date Collected				
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	03-Sep-14/O	1200		
BOD	mg/L	3	SM 5210B	05-Sep-14/O	394		
Total Suspended Solids	mg/L	3	SM 2540D	10-Sep-14/O	100		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	04-Sep-14/O	1370		
Conductivity @25°C	µmho/cm	1	SM 2510B	04-Sep-14/O	3080		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	04-Sep-14/O	501		
pH @25°C	pH Units		SM 4500H	04-Sep-14/O	6.91		
Chloride	mg/L	0.5	SM4110C	05-Sep-14/O	258		
Nitrite (N)	mg/L	0.1	SM4110C	05-Sep-14/O	< 0.5	¹	
Nitrate (N)	mg/L	0.1	SM4110C	05-Sep-14/O	< 0.5	¹	
Sulphate	mg/L	1	SM4110C	05-Sep-14/O	939		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	09-Sep-14/O	8.47		
Phosphorus-Total	mg/L	0.01	MOEE 3367	16-Sep-14/O	0.51		
Phenolics	mg/L	0.001	MOEE 3179	09-Sep-14/O	0.060		
Total Organic Carbon	mg/L	0.2	EPA 415.1	04-Sep-14/O	268		
Aluminum (total)	mg/L	0.01	SM 3120	04-Sep-14/O	0.36		
Arsenic	mg/L	0.0005	EPA 200.8	04-Sep-14/O	0.0095		
Calcium	mg/L	0.02	SM 3120	04-Sep-14/O	453		
Cadmium	mg/L	0.005	SM 3120	04-Sep-14/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	04-Sep-14/O	0.030		
Copper	mg/L	0.002	SM 3120	04-Sep-14/O	0.147		
Chromium	mg/L	0.002	SM 3120	04-Sep-14/O	0.002		
Iron (Total)	mg/L	0.005	SM 3120	05-Sep-14/O	65.6		
Potassium	mg/L	0.1	SM 3120	04-Sep-14/O	55.1		
Magnesium	mg/L	0.01	SM 3120	04-Sep-14/O	56.9		
Manganese (Total)	mg/L	0.001	SM 3120	04-Sep-14/O	3.28		
Mercury	mg/L	0.00002	SM 3112 B	05-Sep-14/O	0.00006		
Sodium	mg/L	0.2	SM 3120	04-Sep-14/O	193		



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

C.O.C.: ---

REPORT No. B14-22761

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Wayne Solomon

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 03-Sep-14

JOB/PROJECT NO.: Leachate

DATE REPORTED: 16-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B14-22761-1			
			Date Collected				
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Nickel	mg/L	0.01	SM 3120	04-Sep-14/O	0.07		
Lead	mg/L	0.02	SM 3120	04-Sep-14/O	< 0.02		
Zinc	mg/L	0.005	SM 3120	04-Sep-14/O	2.30		
Acenaphthene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	08-Sep-14/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	08-Sep-14/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	08-Sep-14/K	0.49		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	08-Sep-14/K	0.50		
Naphthalene	µg/L	0.05	EPA 8270	08-Sep-14/K	0.96		
Phenanthrene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	08-Sep-14/K	< 0.05		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	08-Sep-14/K	67		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	08-Sep-14/K	73		
Benzene	µg/L	0.5	EPA 8260	05-Sep-14/O	1.0		
Toluene	µg/L	0.5	EPA 8260	05-Sep-14/O	4.9		
Ethylbenzene	µg/L	0.5	EPA 8260	05-Sep-14/O	29.1		
Xylene, m,p-	µg/L	0.4	EPA 8260	05-Sep-14/O	132		



M.D.L. = Method Detection Limit
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Gord Murphy
Lab Supervisor

C.O.C.: ---

REPORT No. B14-22761

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Wayne Solomon

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 03-Sep-14

JOB/PROJECT NO.: Leachate

DATE REPORTED: 16-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B14-22761-1			
			Date Collected				
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Styrene	µg/L	0.5	EPA 8260	05-Sep-14/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	05-Sep-14/O	40.8		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	05-Sep-14/O	103		
Toluene-d8 (SS)	%		EPA 8260	05-Sep-14/O	103		
Bromofluorobenzene,4(SS)	%		EPA 8260	05-Sep-14/O	109		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	05-Sep-14/O	387		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	05-Sep-14/O	90		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	05-Sep-14/O	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	05-Sep-14/O	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	10-Sep-14/K	1.6		

1. elevated detection limit due to high chloride & SO



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill